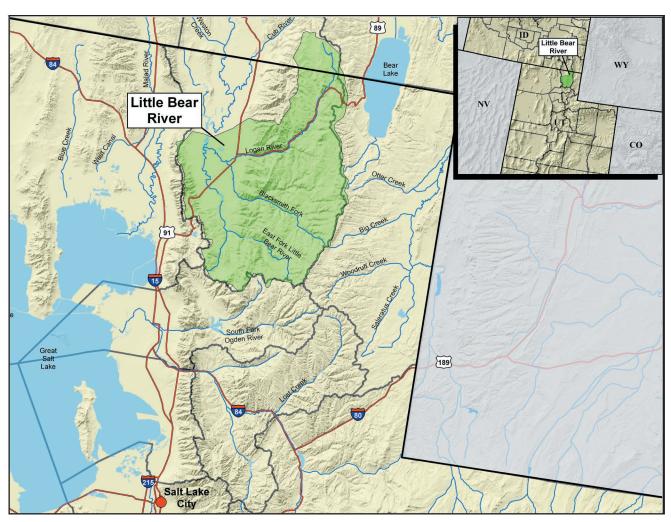
Conservation Effects Assessment Project (CEAP) Watershed Fact Sheet

Little Bear River Watershed, Utah: 2004-2005

A CSREES* Competitive Grant Watershed, one of 24 CEAP watershed projects.



CEAP Assessment

Determine whether conservation practices implemented since 1990 have reduced phosphorus levels.

Watershed Description

- 182,858 acres.
- · Approximately 50 dairy farms.
- 70% range and forest lands, 26% cropland.
- A Total Maximum Daily Load (TMDL) limit was established for phosphorus.

 Watershed is a Clean Water Act Section 319 grant demonstration and monitoring project.

Issues

Historically high phosphorus and sediment concentrations in river attributed mainly to agriculture.

* Cooperative State Research, Education, and Extension Service



Typical pasture land in the Little Bear River Watershed.

Approach

Water Sampling: Phosphorus, sediment, flow, and turbidity

Watershed Models: PSIAC (Pacific Southwest Inter-Agency Committee), AGNPS (Agricultural Nonpoint Source Pollution Model), and EPIC (Erosion/ Productivity Impact Calculator)

Socio-economic Study: Interview farmers to find out if the conservation practices changed their farming techniques.

Communicating Results

Three annual progress reports, information to farmers and general public throughout project, and final report.

Collaborators

- Utah State University Colleges of Engineering, Natural Resources, Humanities, Arts and Social Sciences, and Agriculture
- Utah State University Extension
- Utah State University Water Research Lab
- USDA Natural Resources Conservation Service



Utah Water Research Laboratory researcher Jeff Horsburgh making a water quality measurement in the South Fork of the Little Bear River.



Jeff Horsburgh making a water quality measurement in the Little Bear River during spring runoff conditions.

- Farmers, ranchers
- Utah Division of Water Quality

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